

UNITED ZINC SUPERFUND  
SITE (IOLA, KS) - Draft PRP  
Search Attachments (Vol. 2 of 3)

40324700



Superfund

CERTIFICATE OF INCORPORATION.

10 cent

of

Rev. Stamp.

L A N Y O N Z I N C C O M P A N Y .

This is to certify that we, the undersigned, do hereby associate ourselves into a corporation, under and by virtue of an act of the Legislature of the State of New Jersey, entitled "An Act concerning corporations (Revision of 1896)", and the several supplements thereto and acts amendatory thereof, and do severally agree to take the number of shares of capital stock set opposite our respective names.

I. The name of the corporation is LANYON ZINC COMPANY.

II. The location of the principal office of the corporation in the State of New Jersey is at No. 27 Morris Place, in the Town of Bloomfield, County of Essex. The name of the agent therein and in charge thereof, and upon whom process against the Company may be served, is Benjamin Haskell.

III. The objects for which this corporation is formed are to do any or all of the things herein set forth, in any part of the world viz:

Mining of all kinds; manufacturing of all kinds; the purchase, improvement or sale of lands; to carry on the business of a mining, concentrating, smelting and refining company; to construct and maintain works of all descriptions including railroads (other than railroads within the State of New Jersey) and lines of all kinds of either wrought or cast iron pipe which may seem conducive to any of the objects of the corporation.

070

To acquire and undertake all or any part of the business, assets and liabilities of any person, firm, or corporation; to apply for, purchase or otherwise acquire and dispose of letters patent for inventions, or any interest therein.

⑥ To purchase, hold, sell, assign, transfer, mortgage or otherwise dispose of the shares of the capital stock, or any bonds, securities or evidences of indebtedness created by any other corporation or corporations of this or any other state or foreign country; and while owner of said stock may exercise all the rights, <sup>powers and</sup> privileges and powers of ownership, including the right to vote thereon; to make and perform contracts of every kind with any person or corporation; and in general to conduct the business of purchasing, acquiring, holding, improving, developing, leasing, exchanging and selling real and personal property.

This corporation shall also have power to conduct its business in all its branches, and have one or more offices, and unlimitedly and without restriction to hold, purchase, mortgage and convey real and personal property outside of the State of New Jersey, and in any State or Territory of the United States, and in any foreign country. But nothing herein contained is to be considered as intending to form an insurance, safe deposit or trust company, banking corporation, savings bank, or other corporation intended to derive profit from the loan or use of money, or any company for the purpose of constructing, maintaining and operating railroads wholly or partly in the State

of New Jersey, or any turnpike company, or a corporation for any purpose not authorized by the laws of the State of New Jersey.

IV. The total amount of capital stock of this Company is to be Three million Dollars (\$3,000,000) divided into Thirty thousand (30,000) shares of the par value of One hundred Dollars (\$100.) each. The amount of capital stock with which this Company will commence business is to be Three thousand Dollars (<sup>#</sup>3,000.). Of the said stock twenty thousand (20,000) shares shall be preferred stock and Ten thousand (10,000) shares shall be common stock.

Said preferred stock shall entitle the holder thereof to receive out of the net profits a cumulative dividend at the rate of, but never to exceed <sup>ing</sup> eight per centum per annum, whenever declared by the Board of Directors, payable before any dividends shall be set apart or paid on the common stock; all other dividends shall be payable to the holders of the common stock; The holders of the preferred stock shall in the event of the liquidation or dissolution of *the* Company, be entitled to be paid in full, both the principal of their shares and accrued dividends before any amount shall be paid to the holders of the common stock. Such preferred and common stock may be issued when and as the Board of Directors shall determine and the vote or assent of the stockholders shall not be necessary for such issue.

V. The names and post-office addresses of the incorporators and the number of shares of common stock (ten) subscribed for by each, the aggregate of which being Three thousand Dollars (\$3,000) is the

amount of capital stock with which the corporation will commence business, are as follows:

Name.	P. O. Address.	No. of Shares.
Benjamin Haskell,	Bloomfield, N. J.	10 shares common stock.
Martin W. Littleton,	168 Montague St., Brooklyn, N. Y.	10 shares common stock.
L. B. Grant,	32 Nassau St., N. Y. City.	10 shares common stock.

VI. The duration of the corporation shall be unlimited.

VII. The corporation may use and apply its surplus earnings, or accumulated profits authorized by law to be reserved, to the purchase or acquisition of property and to the purchase or acquisition of its own capital stock from time to time, to such extent and in such manner and upon such terms as its Board of Directors shall determine; and neither the property nor any of its capital stock so taken in payment or satisfaction of any debt due to the corporation shall be regarded as profits for the purposes of declaration or payment of dividends, unless otherwise determined by a majority of the Board of Directors, or a majority of the stockholders.

The corporation in its By-Laws may prescribe the number necessary to constitute a quorum of the Board of Directors, which number may be less than a majority of the whole number. The number of Directors at any time may be increased by vote of the Board of Directors, and in case of any such increase the Board of Directors shall have power to elect such additional directors, to hold office until the next meeting of stockholders, or until their successors shall be elected.

The Board of Directors shall have power without the assent or

vote of the stockholders to make, alter, amend and rescind the By-laws of the corporation; to fix the amount to be reserved as working capital; to authorize and to cause to be executed mortgages and liens upon the real and personal property of the corporation, and from time to time to sell, assign, transfer or otherwise dispose of any or all of the property of the corporation, but no such sale of all of the property of the corporation shall be made unless pursuant to a vote of at least two-thirds of the Board of Directors.

The Board of Directors, by resolution passed by a majority of the whole Board, may designate three or more Directors to constitute an Executive Committee, which Committee, to the extent provided in said resolution or in the By-laws of the corporation, shall have, and may exercise, the power of the Board of Directors in the management of the business and affairs of the corporation, and shall have power to authorize the seal of the corporation to be affixed to all papers which may require it.

The Board of Directors from time to time shall determine whether and to what extent, and at what times and places, and under what conditions and regulations, the accounts and books of the corporation, or any of them, shall be open to the inspection of the stockholders; and no stockholder shall have any right of inspecting any account or book or document of the corporation except as conferred by statute or authorized by the Board of Directors, or by a resolution of the stockholders.

The Board of Directors shall have power to hold its meetings, to have one or more offices, and to keep the books of the corporation (except the stock and transfer books) outside of this State, at

such places as may be from time to time designated by them.

IN WITNESS WHEREOF, we have hereunto set our hand and seals the twenty-fourth day of February, 1899.

In presence of:

Geo. M. Curtis, Jr.

Benj. Haskell L.S.

Martin W. Littleton L.S.

L. B. Grant L.S.

STATE OF NEW YORK, :  
: ss:  
County of New York. : A

BE IT REMEMBERED, that on this 25th day of February, A. D. 1899, before me the undersigned, a Master in Chancery of New Jersey, personally appeared George M. Curtis, Jr., to me known, who being by me duly sworn, on his oath did depose and say: That he saw Benjamin Haskell, Martin W. Littleton, and L. B. Grant, the persons named in and who executed the foregoing certificate, severally sign, seal and deliver the same and that they severally acknowledged to him, the said George M. Curtis, Jr., that they signed, sealed and delivered the same as their voluntary act and deed, and that deponent at the time subscribed his name thereto as an attesting witness to the execution thereof.

Taken, sworn and subscribed before me this February 25, 1899.

Geo.M.Curtis,Jr. IN WITNESS WHEREOF, I have hereunto set my hand the day and year aforesaid.

Joseph Garrison,  
Master in Chancery of New Jersey.

10 cent

Rev. Stamp.

Endorsed: "Received in the Clerk's Office of the County of Essex, on the 27th day of February A.D.1899, and recorded in Book 15 of Incorporated Bus Cos for said County, page 395

William O.Kuebler

Clerk."

"Filed Feb 27 1899 George Wurts Secretary of State."

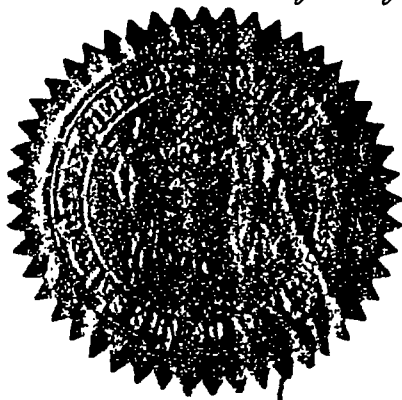
STATE OF NEW JERSEY.



DEPARTMENT OF STATE.

I, GEORGE WURTS, Secretary of State of the State of New Jersey, do hereby Certify, that the foregoing is a true copy of the Certificate of Incorporation of Lanston Zinc Corp.

and the endorsements thereon, as the same is taken from and compared with the original filed in my office on the twenty fourth day of February, A.D. 1897, and now remaining on file therein.



IN TESTIMONY WHEREOF, I have here-

unto set my hand and affixed my Official Seal, at Trenton, this twenty fourth day of February, A.D. 1897

*George Wurts*  
Secretary of State.



Know all

That the Lanyon Zinc Company

a corporation organized under the laws of the State of New Jersey, and with its principal office at No. 27 Morris Place, Bloomfield in said State, hereby consents, without power of revocation, that actions may be commenced against it, the said Lanyon Zinc Company, in the proper court of any County in the State of

Kansas in which a cause of action against such corporation may arise, or may have heretofore arisen, or in which plaintiff may reside, by service of process on the Secretary of State of the State of Kansas; and the said corporation stipulates and agrees that such service shall be taken and held in all courts to be as valid and binding as if due service had been made upon the President or any other chief officer of said corporation.

IN WITNESS WHEREOF, Said corporation has caused these presents to be executed by its President and its Secretary, and authenticated by its corporate seal, the  
at the City of New York, in the State of New York  
this 24th day of May, A. D. 1899.

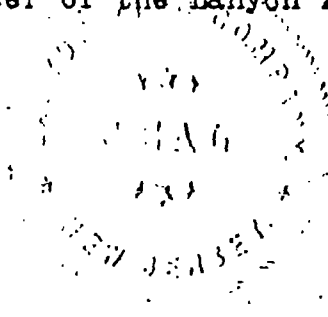


ATTEST:

*John E. Byrne*  
President.  
*Edmund A. [illegible]*  
Secretary.

I, EDMUND L. JUDSON, Secretary of the Lanyon Zinc Company, do hereby CERTIFY that the following is a correct copy of a resolution duly adopted at a meeting of the Board of Directors of Lanyon Zinc Company held on the 25th day of March, 1899:

R E S O L V E D , That the President and Secretary of this Company be and they hereby are authorized to execute in the name of the Company and authenticated by the seal of the Company a written consent irrevocable that actions against said Company may be commenced in the proper Court of any county in the State of Kansas in which the cause of action arose or in which the plaintiff may reside, by the service of process on the Secretary of State, and stipulating and agreeing that such service shall be taken and held in all courts to be as valid and binding as if due service had been made upon the President or chief officer of the Lanyon Zinc Company.



*Edmund L. Judson*

Secretary.

No 1

APPLICATION

to Charter Board

by

LANYON ZINC COMPANY.

March 30 - 1897.

consideration

Consideration of  
Charter Board

March 30 - 1897

To the Charter Board of the State of Kansas:

The Lanyon Zinc Company, a corporation organized under the Laws of the State of New Jersey and seeking to do business in the State of Kansas, makes application to your Honorable Board for permission to engage in business as a foreign corporation in the State of Kansas, and hereby respectfully represents and sets forth:

FIRST:- Hereto annexed is a certified copy of the Articles of Incorporation of your applicant the Lanyon Zinc Company, which as appears by said certificate was recorded in the office of the County Clerk of the County of Essex, in the State of New Jersey, on the 27th day of February, 1899, and was filed in the office of the Secretary of State of the State of New Jersey on the same day, which was the date of the incorporation of your applicant.

SECOND:- The place where the principal office or place of business of your applicant the Lanyon Zinc Company is to be located, is in the Town of Bloomfield, in the said County of Essex and State of New Jersey.

THIRD:- The full nature and character of the business in which your applicant the Lanyon Zinc Company proposes to engage is as follows:-

Mining of all kinds; manufacturing of all kinds; the purchase, improvement or sale of lands; to carry on the business of a mining, concentrating, smelting and refining company; to construct and maintain works of all descriptions including railroads (other than railroads within the State of New Jersey) and lines of all kinds of eith-

er wrought or cast iron pipe which may seem conducive to any of the objects of the corporation.

To acquire and undertake all or any part of the business, assets and liabilities of any person, firm or corporation; to apply for, purchase or otherwise acquire and dispose of letters patent for inventions, or any interest therein.

To purchase, hold, sell, assign, transfer, mortgage or otherwise dispose of the shares of the capital stock, or any bonds, securities or evidences of indebtedness created by any other corporation or corporations of this or any other state or foreign country, and while owner of said stock to exercise all the rights, powers and privileges of ownership, including the right to vote thereon; to make and perform contracts of every kind with any person or corporation; and in general to conduct the business of purchasing, acquiring, holding, improving, developing, leasing, exchanging and selling real and personal property.

FOURTH:- The names and addresses of the officers of your applicant the Lanyon Zinc Company are as follows:-

Benjamin Haskell, Bloomfield, New Jersey, President.

Louis B. Grant, 32 Nassau Street, New York City, N. Y. Secretary.

Edmund L. Judson, 222 Broadway, New York City, N. Y., Treasurer.

The names and addresses of the Directors of your applicant, the Lanyon Zinc Company, are as follows:-

Benjamin Haskell, Bloomfield, New Jersey.

Martin W. Littleton, 168 Montague Street, Brooklyn, N. Y.

Louis B. Grant, 32 Nassau Street, New York City, N. Y.,  
who are also all of the stockholders of your applicant, Lanyon Zinc  
Company.

FIFTH:- A detailed statement of the assets and liabilities  
of your applicant the Lanyon Zinc Company is hereto annexed marked  
"Exhibit A", which forms a part of this application.

SIXTH:- Attached hereto is the consent of the Lanyon  
Zinc Company that actions against said Company may be commenced in  
the proper Court of any county in the State of Kansas in which the  
cause of action arose or in which the plaintiff may reside, by the  
service of process on the secretary of state, and stipulating and  
agreeing that such service shall be taken and held in all courts to  
be as valid and binding as if due service had been made upon the  
president or chief officer of your applicant.

IN WITNESS WHEREOF, the Lanyon Zinc Company has caused  
this application to be signed by its President and its corporate seal  
to be hereunto affixed and attested by the signature of its Secretary  
on the twenty-fifth day of March, 1899.

LANYON ZINC COMPANY,

By *Ben. K. Kell*  
President.

Attest:

*L. B. Grant*  
Secretary.

State of New York,     )  
                              : ss.  
County of New York.    )

On this twenty-fifth day of March, 1899, before me the undersigned, a notary public in and for the said County of New York, in the State of New York, personally came Benjamin Haskell and L. B. Grant to me personally known to be the same persons who, as President and Secretary respectively, executed the foregoing application in the name of Lanyon Zinc Company, and they duly acknowledged to me that they executed the said application in the name of Lanyon Zinc Company by them as President and Secretary thereof, respectively, and that the said application, and the execution thereof by Lanyon Zinc Company, by them as President and Secretary thereof respectively as aforesaid, was the act of the said corporation Lanyon Zinc Company; and the said Benjamin Haskell and L. B. Grant, being by me severally duly sworn, did, each for himself, depose and say that the said Benjamin Haskell resided in the Town of Bloomfield, in the State of New Jersey, and was the President of Lanyon Zinc Company, and that the said L. B. Grant resided in the City of New York and State of New York, and was the Secretary of Lanyon Zinc Company; that said Lanyon Zinc Company was the corporation described in and which executed the foregoing application; that he knew the corporate seal of the said corporation; that the seal affixed to the foregoing application was such corporate seal; that it was so affixed by the order of the Board of Directors of said corporation, and that he

signed his name thereto by the like order.  
Severally acknowledged and sworn to  
before me this 25th day of March, 1899.

*Am. Kaskel*  
*L.B. Grant*

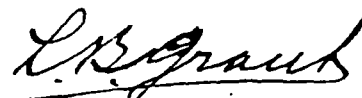
*Wm. P. Rogers*





I, Louis B. Grant, Secretary of the Lanyon Zinc Company, do hereby certify that the following is a correct copy of a resolution duly adopted at a meeting of the Board of Directors of Lanyon Zinc Company held on the 25th day of March, 1899:

RESOLVED, That the President and Secretary of this Company be and they hereby are authorized to execute in the name of the Company and authenticated by the seal of the Company a written consent irrevocable that actions against said Company may be commenced in the proper Court of any county in the State of Kansas in which the cause of action arose or in which the plaintiff may reside, by the service of process on the secretary of state, and stipulating and agreeing that such service shall be taken and held in all courts to be as valid and binding as if due service had been made upon the president or chief officer of the Lanyon Zinc Company.

A handwritten signature in cursive script, reading "L.B. Grant", is written over a horizontal line.

Secretary.

Pursuant to the provisions of the Laws of the State of Kansas, the Lanyon Zinc Company, a stock corporation organized and existing under and by virtue of the Laws of the State of New Jersey, does hereby file in the office of the Secretary of State of the State of Kansas the written consent irrevocable of said Lanyon Zinc Company that actions may be commenced against the Lanyon Zinc Company in the proper Court of any county in the State of Kansas in which the cause of action arose or in which the plaintiff may reside, by the service of process on the Secretary of State and stipulating and agreeing that such service shall be taken and held in all courts to be as valid and binding as if due service had been made upon the president or chief officer of the Lanyon Zinc Company.

IN WITNESS WHEREOF, the Lanyon Zinc Company has caused this consent to be signed by its President and its corporate seal to be hereunto affixed and attested by the signature of its Secretary on the twenty-fifth day of March, 1899.

LANYON ZINC COMPANY,

By *Ben Haskell*  
President.

Attest:

*E. B. Grant*  
Secretary.

"EXHIBIT A."

Assets and Liabilities.

FIRST. All those certain lots, pieces or parcels of land situate, lying and being in the County of Allen and State of Kansas, described as follows:

I. The east half of the east half of the southwest quarter of section twenty-eight (28), township twenty-four (24), range nineteen (19), containing forty (40) acres, more or less.

II. The northwest quarter, and the northeast quarter of the southwest quarter of section thirty-four (34), township twenty-four (24), range nineteen (19), less the right of way of the Fort Scott, Wichita and Western Railway, containing one hundred and ninety-six (196) acres, more or less.

III. All that part of the southeast quarter of section twenty-seven (27), township twenty-four (24), range eighteen (18), commencing at a point one and fifty and one-half hundredths ( $1\ 50\ \frac{1}{2}/100$ ) chains north of the southeast corner of the northeast quarter of said southeast quarter; thence north twelve and thirty-nine hundredths ( $12\ 39/100$ ) chains; thence west six and sixty-four hundredths ( $6\ 64/100$ ) chains; thence south twelve and thirty-nine hundredths ( $12\ 39/100$ ) chains; thence east six and sixty-three hundredths ( $6\ 63/100$ ) chains to the place of beginning, containing eight and twenty-two hundredths ( $8\ 22/100$ ) acres, more or less.

IV. Commencing at a point seven hundred and twenty (720) feet north of the north line of the southeast quarter of the southeast quarter of section twenty-seven (27), township twenty-four (24), range eighteen (18), and fifty feet west of the centre of the right of way of the Kansas City, Lawrence and Southern Kansas Railway; thence west thirty rods; thence north sixteen (16) rods; thence east thirty (30) rods; thence south sixteen (16) rods, to the place of beginning, containing three acres.

V. Lots numbers ten (10), eleven (11) in block ten (10), lot ten (10) in block eleven (11), lot eight (8) in block twenty-two (22), lot two (2) in block twenty-three (23), lot three (3) in block twenty-four (24), lot ten (10) in block thirty-nine (39), lots five and ten (5 and 10) in block forty-one (41), all in the City of Iola, according to the original recorded plat thereof.

VI. All that part of the northeast quarter of the southeast quarter of section thirty-four (34), township twenty-four (24), south of range eighteen (18), commencing at a point thirteen hundred and thir-

rods; thence east ten (10) rods; thence south sixteen (16) rods to the place of beginning, containing one acre.

XIV. Lot five (5) in block nine (9) in the Village of La Harpe, according to the recorded plat thereof on file in the office of the Register of Deeds of the county of Allen.

XV. Lots five (5), six (6), seven (7) and eight (8) in block five (5) in the Village of La Harpe, according to the recorded plat thereof.

X SECOND. All that certain lot, piece or parcel of land situate, lying and being in the County of Crawford and State of Kansas, described as follows:

Beginning at a point seven hundred and forty (740) feet south and three hundred and six (306) feet east from the northwest corner of the northeast quarter of section number twenty-nine (29) in township number thirty (30), range number twenty-five (25) east; thence south thirty-one (31) degrees west eight hundred and fifty (850) feet; thence south fifty-five (55) degrees east eight hundred and twenty (820) feet; thence north five (5) degrees east twelve hundred and thirty (1,230) feet; thence west three hundred and fifty (350) feet to the place of beginning, containing twelve and four-fifths (12  $\frac{4}{5}$ ) acres; said tract being a part of the east half of the northwest quarter and the west half of the northeast quarter of section number twenty-nine (29), township thirty (30), range twenty-five (25).

This tract is held subject to the rights reserved by The Rogers Coal Company to mine for coal thereon, as reserved in a certain deed of conveyance executed by The Rogers Coal Company to William Lanyon, Jr., and Cyrus Lanyon, dated the 30th day of May, 1883, and recorded in Book R of the Records of Deeds of Crawford county, at page 523.

X THIRD. All the oil and gas in and under the several tracts or parcels of land situated in Allen County, State of Kansas, conveyed and secured to the lessees hereinafter named by the several leases and conveyances duly executed, acknowledged, certified and recorded in the office of the Register of Deeds of Allen County, Kansas, and heretofore assigned to the Lanyon Zinc Company, for a more particular description of which reference is hereby made to the several leases and conveyances by giving the names of lessors, lessees, date of execution and record page, as follows:

I. Lessors: S. M. Neal, R. M. Neal, Harry B. Miller, Burton E. Miller and Bessie Miller. Lessees: Robert Lanyon's Sons' Spelter Company. Dated October 3, 1898, and recorded in Book 6, Miscellaneous Records, page 270.

II. Lessors: J. T. Reno and Sadie Reno. Lessees: Robert Lanyon's Sons' Spelter Company. Dated July 15, 1898, and recorded in Book 6, Miscellaneous Records, page 222.

III. Lessors: J. S. Turner and M. Fannie Turner. Lessees: Robert Lanyon's Sons' Spelter Company. Dated April 10, 1897, recorded in Book 5, Miscellaneous Records, page 500.

IV. Lessors: L. D. Buck and Elizabeth Buck. Lessees: Robert Lanyon's Sons' Spelter Company. Dated October 1, 1897; recorded in Book 5, Miscellaneous Records, page 580.

V. Lessors: Caroline E. Reid and James E. Reid. Lessee: George A. Bowlus. Dated May 17, 1897, and recorded in Book 6, Miscellaneous Records, page 290.

VI. Lessors: Mary E. Northrup, Frank A. Northrup, Lewis L. Northrup and Delmar P. Northrup. Lessees: Robert H. Lanyon and William Lanyon, conveying the exclusive use of the natural gas in gas well number five, known as the Northrup Gas Well, dated June 2, 1896; recorded in Book 6, Miscellaneous Records, page 133.

VII. Lessors: Orlando Hunter, Joseph Hunter and Harriet Means. Lessee: A. L. Taylor. Dated May 15, 1897; assigned to W. and J. Lanyon; filed for record in the Register's office of Allen County, February 9, 1899.

VIII. Lessors: Lyman Sleeper and Elizabeth R. Sleeper. Lessee: George A. Bowlus. Dated May 14, 1897, and assigned to W. and J. Lanyon; filed for record in the Register's office of Allen County, February 9, 1899.

IX. Lessors: Luella L. Stauffer and Ben F. Stauffer. Lessees: William and Josiah Lanyon. Dated October 27, 1898; recorded in Book 6, Miscellaneous Records, page 267.

X. Lessors: Mary E. Northrup, Frank A. Northrup, Alice M. Northrup, Lewis L. Northrup, Lettie A. Northrup, Delmar P. Northrup and Docia Northrup. Lessee: George M. Curtis, Jr. Dated February 17, 1899; filed for record in the Register's office of Allen County, February 17, 1899, at 12 o'clock M., and recorded in Book 7 of Miscellaneous Records, page 95.

XI. The Lanyon Zinc Company also owns all the gas and oil reserved by Robert H. Lanyon and William Lanyon in and under lot 6, block 9, and lots 3, 4, 9 and 10, in block 5, in the Village of La Harpe, in Allen County; also the gas and oil in and under two acres

in the northeast quarter of the southeast quarter of section 34, township 24, range 18 in said county, reserved in a deed executed by Robert H. and William Lanyon to John Richards, February 16, 1898, and recorded in volume 22, page 180 of the deed records of said county.

FOURTH. Certain rights, interests and privileges of the Lanyon Zinc Company as assignee in and under the following:

I. A lease from Frank A. Northrup and others to Robert Lanyon's Sons, dated June 1, 1896, recorded in the office of the Register of Deeds of Allen County, in Book 5 of Miscellaneous Records, page 135.

II. A certain contract between Robert H. and William Lanyon and The Co-operative Gas Company, recorded in the office of the Register of Deeds of Allen County, in Book 5 of Miscellaneous Records, page 141.

III. A franchise granted to Frank L. Travis by the County Commissioners of Allen County, Kansas, to lay gas pipes or mains in the highways of Elm Township of said County, set forth in an instrument recorded in the Commissioners' Journal G., page 214, in the office of the County Clerk of the said County.

FIFTH: All the oil and gas in and under certain lands in the County of Allen, State of Kansas, conveyed and transferred to Thomas L. Hughes by deed of assignment executed by The Palmer Oil and Gas Company, dated February 9, 1899, and heretofore conveyed and transferred to the Lanyon Zinc Company by the said Thomas L. Hughes by deed of assignment dated March 3, 1899, both of which assignments are recorded in the Register's office of said County.

SIXTH. Four smelting plants; two of which are located at Iola, Kansas, one located near La Harpe, Kansas, and one at Pittsburg, Kansas.

SEVENTH. Further assets of the Lanyon Zinc Company are

\$362,380 cash in treasury.

\$145,000 due for spelter sold.

\$65,000 raw materials and supplies on hand.

EIGHTH. The sole liabilities of Lanyon Zinc Company are

as follows:

First Mortgage on all its property \$2,000,000.

(Bonds to the amount of \$1,650,000 secured by this mortgage have been issued.)

Due employes about \$10,000.

The foregoing is a full statement of the assets and liabilities of Lanyon Zinc Company.

Sworn to before me this )  
25th day of March, 1899. )

*Ben Haskell*

President.

*L.B. Grant*

Secretary.

*Joseph Kearny*  
*Notary Public Kings County*  
*Certificate filed in New York County.*

PARKER, HATCH & SHEEHAN  
37 WALL STREET

ALTON B. PARKER  
EDWARD W. HATCH  
WILLIAM F. SHEEHAN  
CHARLES H. WERNER

NEW YORK, February 2, 1912.

Secretary of State,  
Topeka,  
Kansas.

*Filed  
Jan. 18-1900-*

Dear Sir:-

We herewith send you annual statement of the Lanyon Zinc Company, a New Jersey corporation, for filing in your office, together with a check to your order for \$1.00 in payment of the fee for filing the same. As stated on the report, this Company's property was all sold at mortgage foreclosure sale early in 1910, and the Company is a defunct corporation; we therefore suppose it will not be necessary to file annual statements for this Company in future years.

Very truly yours,

W:M.  
Encs.

*Parker, Hatch & Sheehan*

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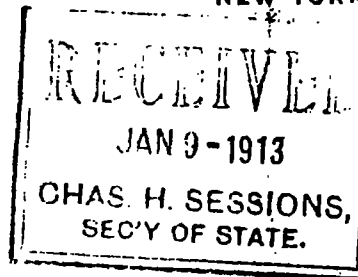


**HATCH & SHEEHAN**  
BANKERS TRUST COMPANY BUILDING  
14 WALL STREET

EDWARD W. HATCH  
WILLIAM F. SHEEHAN  
CHARLES H. WERNER

NEW YORK

January 7, 1913.



Secretary of State  
Topeka, Kansas.

Dear Sir:

Mr. Edmund L. Judson, of 37 Wall Street, New York City, formerly Secretary of Lanyon Zinc Company, has handed us your circular letter enclosing blank form for the annual statement of Lanyon Zinc Company. We beg to call your attention to our letter addressed to you under date of February 2, 1912, wherein we stated that all of this Company's property had been sold at mortgage foreclosure sale early in 1910 and that the Company was defunct. May we therefore ask that you kindly cross this Company off your books, and oblige,

Very truly yours,

*Hatch and Sheehan*

W:B.

1114 Book 22 page 127

One: <u>Imp Boats</u> ID #: <u>KSD091356857</u> Break: <u>11-11</u> Other: <u>N/D</u>
--

## QUIT-CLAIM

## DEED.

THIS INDENTURE, made by and between Lanyon Zinc Smelting Company, a corporation as first party, and J.B. KIRK, as second party, WITNESSETH:

that said first party for and in consideration of the sum of One (1.00) Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, does hereby release, remise and quit-claim unto said second party certain real estate situated in the County of Allen in the State of Kansas, and more particularly described as follows, to-wit:

1. The West half ( $\frac{1}{2}$ ) of the North-West quarter ( $\frac{1}{4}$ ) (less 4 acres in square form in North-west corner) and 15 acres off the west side of the East Half ( $\frac{1}{2}$ ) of the North-west Quarter ( $\frac{1}{4}$ ), all in section (34) Thirty-four, Township Twenty-four (24), Range Nineteen (19).

2. All that part of the South-east quarter ( $\frac{1}{4}$ ) of Section Twenty-seven (27), Township Twenty-four (24), Range Eighteen (18) commencing at a point 1.50 $\frac{1}{2}$  chains north of the South-east corner of the North-east quarter ( $\frac{1}{4}$ ) of said South-east quarter ( $\frac{1}{4}$ ), running thence north 12.39 chains, west 6.64 chains, south 12.39 chains, east 6.64 chains to the place of beginning, containing 8.22 acres more or less.

3. A tract bounded as follows: Commencing at a point 720 feet north of the north line of the South-east quarter ( $\frac{1}{4}$ ) of the South-east quarter ( $\frac{1}{4}$ ) of Section Twenty-seven (27), township Twenty-four (24), Range Eighteen (18), and 50 feet west of the center of the right-of-way of the Kansas City, Lawrence & Southern Kansas Railway Company (now the Atchison, Topeka & Santa Fe Railway Company), thence west 30 rods, thence north 16 rods, thence east 30 rods, thence south 15 rods to place of beginning, containing 3 acres, more or less.

4. A tract bounded as follows. Commencing at a point 984 feet north of the north line of the South-east Quarter ( $\frac{1}{4}$ ) of the South-east quarter ( $\frac{1}{4}$ ) of Section Twenty-seven (27), Township Twenty-four (24), Range Eighteen (18), on the west line of the right-of-way of the Leavenworth, Lawrence & Galveston Railroad Company (now the Atchison, Topeka & Santa Fe Railway Company), running thence west 30 rods, thence south 16 rods, thence west 25 rods, thence north 64 rods, thence east to the west line of the right-of-way of said railway, thence south following the west line of said right-of-way to the place of beginning, containing 19 acres more or less.

5. That part of the South-east quarter ( $\frac{1}{4}$ ) of Section Twenty-seven (27), Township Twenty-four (24), Range Eighteen (18) bounded as follows: Beginning at the North-east corner of the South-east quarter ( $\frac{1}{4}$ ), running thence south 6.105 chains, thence west 6.63 chains, thence north 6.105 chains, thence east 6.45 chains, containing 3.99 acres.

6. That part of the North-east quarter ( $\frac{1}{4}$ ) of Section Twenty-seven (27), Township Twenty-four (24), Range Eighteen (18), bounded as follows: Commencing at a point on the North line of the south half ( $\frac{1}{2}$ ) of the North east quarter ( $\frac{1}{4}$ ) 50 feet west of the center of the track of the L.L. & G. R.R. Co. (now Atchison, Topeka, & Santa Fe Railway Company), running thence west 70 rods, and 12 links, thence south 53 rods and 7 links, thence east to a point 50 feet west of the center of said railroad track, thence north parallel with and 50 feet west of the center of said track to the place of beginning, containing 23 acres more or less.

7. A tract situated in the South-west quarter ( $\frac{1}{4}$ ) of Section Twenty-seven (27), Township Twenty-four (24), Range Nineteen (19), bounded as follows: Commencing at the South west corner of the South-east Quarter ( $\frac{1}{4}$ ) of the South-west quarter ( $\frac{1}{4}$ ) of said Section, running thence west 470 feet, thence north 66 feet, thence west 164 feet, thence north 652 feet, thence east 635 feet to the west line of said South-east quarter ( $\frac{1}{4}$ ), thence south to place of beginning, containing  $9\frac{1}{4}$  acres more or less.

8. The South-east quarter of the South-west quarter ( $\frac{1}{4}$ ) of Section Sixteen (16), Township Twenty four (24), Range Eighteen (18) (less about  $1\frac{3}{4}$  acres lying east of Deer Creek), containing  $38\frac{1}{4}$  acres, more or less.

9. Lots 1 to 5 inclusive, in Block 19; Lots 11 and 78 in Block 18; Lots 15 to 18 inclusive, in Block 13; Lots 25, 26, 27, 29, 30, 59, South half ( $\frac{1}{2}$ ) of 63 and lot 64 in Block 7; Lots 31 to 36 inclusive, and 53, 54, 57 and 58 in Block 6; Lots 37 to 50 inclusive, and 52 in Block 1; Lots 65, 67 and 68 in Block 12; Lots 86, 87 and 88 in Block 19; Lots 97 and 99 in Block 17; Lots 105, 106 and 159 in Block 14 (including all rights of said first party under written contract of date February 26, 1908 for the sale of said last mentioned lot by Lanyon Zinc Company to Charles R. Minich); Lots 115 to 118 inclusive and 147 to 150 inclusive, in Block 8; Lots 119 to 124 inclusive and 141 and 143 to 146 inclusive, in Block 5; Lots 125 to 140 inclusive, in Block 2; Lots 154, 155, 156 and 158 in Block 11; Lots 172 and 173 in Block 20; Lot 177 to 180 inclusive, in Block 21; Lot 187 in Block 16; Lots 195 to 200 inclusive, and 241, 242, and 245 in Block 10; Lots 201 to 206 inclusive, and 235 to 240 inclusive, in Block 9; Lots 207 to 212 inclusive, and 230 to 232 inclusive in Block 4; Lots 213 to 222 inclusive, and 224 to 228 inclusive, in Block 3, all in the Town of Lanyonville.

10. Lots 10 and 11 in Block 2; and Lot 2 in Block 3 in Midland Addition to the town of Lanyonville.

11. Lots 9 to 12 inclusive, and Lots 15 and 16 in Block 1; Lots 1 to 3 inclusive, and 6 to 10 inclusive, in Block 2; Lot 14 in Block 3; Lot 12 in Block 4; Lot 12 in Block 5; Lot 12 in Block 6; Lot 12 in Block 7; Lot 12 in Block 8; Lots 1 to 12 inclusive, in Block 9; Lots 11 and 12 in Block 10; and Lots 4 to 6 inclusive, in Block 15, all in North Midland Addition to the Town of Lanyonville.

12. Lots 1, 2 and 7 in Block 2, and lots 3 and 4 in Block 4, all in East Midland Addition to the town of Lanyonville.
13. Lots 9 and 47 in Hillside Addition (now a part of the City of La Harpe).
14. Lots 6 and 8 in Block 11; Lot 3 in Block 10; Lot 10 in Block 6; Lot 7 in Block 3; and Lot 3 in Block 4; All in Farmer's Addition to the City of La Harpe.
15. Lot 5 in Block 9, and lot 10 in Block 3 of the City of La Harpe.
16. Lots 5 to 8 inclusive, in Block 118 in the City of Iola.
17. Lot 1 in Block 19 in Rhodes Addition to the City of Iola.
18. Lot 9 in Block 8 of Smith's Addition to the City of La Harpe, including all rights of said first party under and by virtue of a contract of date February 1, 1909 for the sale of said lot from Lanyon Zinc Company to Peter Purcell.
19. Lots 6 and 7 in Block 12 in Melrose Place, including all rights of said first party under and by virtue of contracts of date September 8, 1903 for the sale of said lots by Lanyon Zinc Company to C.H. Fleming.

IN WITNESS WHEREOF, said first party has executed this instrument or caused the same to be duly executed at the City of New York, the 29th day of July, 1912--.



LANYON ZINC SMELTING COMPANY,  
By LOWELL M. PALMER  
President.

ATTEST:

Chas G. Meyer, Secretary--.

State of New York, County of New York, City of New York, SS;

I hereby certify that on the 29th day of July, 1912, before me, the undersigned Notary Public in and for said last-mentioned City and State, came Lowell M. Palmer, to me personally known to be the same person who executed the foregoing written instrument as President of the Lanyon Zinc Company, a corporation, and he thereupon duly acknowledged the execution of the same to be the act and instrument of said corporation. *Witnessing hand and Notarial Seal at the City of New York the day and year last above written.*

JAMES A. BYRNE, Notary Public,  
New York, County, No. 266.

My commission expires March 30th, 1913.

State of New York, County of New York, ss:

#55077

I, William F. Schneider, Clerk of the County of New York, and also Clerk of the Supreme Court for the said County, the same being a Court of Record, do here by Certify, That James A. Byrne, whose name is subscribed to the certificate of the proof or acknowledgement of the annexed instrument ~~instrument~~, and thereon written, was, at the time of taking such proof or acknowledgement, a Notary Public in and for the County of New York, Dwelling in said County, commissioned and sworn, and duly authorized to take the same. And further that I am well acquainted with the handwriting of such Notary, and verily believe that the signature to the said certificate or proof or acknowledgement is genuine.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seal of the said Court and County, the 30 day of July, 1912

W.F. Schneider, Clerk.

Filed for record this 3rd day of August A.D. 1912, at 11 O'clock, A.M. ..

JOHN W. LAURY, Register of Deeds.

4. Cherryvale shall not be required to dispose of any overburden or waste material resulting from removal operations, or to backfill any pit or depression resulting therefrom.

5. This Agreement shall be binding upon the heirs, successors and assigns of the parties hereto.

Estate of J. B. Kirk, Deceased

By: Stanley J. Kirk  
Executor

Cherryvale Zinc Company, Incorporated

ATTEST:

E. H. Adams  
Secretary

W. H. Leverett  
President



STATE OF KANSAS, COUNTY OF ALLEN: SS

Before me, the undersigned, a Notary Public in and for said County and State on this 31st day of October, 1956, personally appeared Stanley J. Kirk, Executor of the Estate of J. B. Kirk, Deceased, to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and seal the day and year last above written.

My commission expires June 7, 1959

Howard T. Upshaw  
Notary Public



STATE OF NEW YORK, COUNTY OF NEW YORK: SS

Before me, the undersigned, a Notary Public in and for said County and State on this 26th day of October, 1956, personally appeared W. H. Leverett to me known to be the identical person who subscribed the name of the maker thereof to the foregoing instrument as its President and acknowledged to me that he executed the same as his free and voluntary act and deed as the free and voluntary act and deed of such corporation, for the uses and purposes therein set forth.

Given under my hand and seal of office the day and year last above written.

Robert H. Glickler  
Notary Public, State of New York, No. 24-1457800  
Qualified in Kings County, Cert. filed in New York  
County Commission expires March 30, 1957

APPROVED this 31st day of October, 1956.

Howard T. Upshaw  
Probate Judge of Allen County, Kansas

EXHIBIT "A"

DUMP NO. ONE: Containing 32,279 tons, more or less of cinder residue located on Eighty Acres (80) lying in the West Half of the Northeast Quarter (W/2 NE/4) of Section Thirty-Four (34), Township Twenty-Four (24) South, Range Nineteen (19), less 4 acres out of the northwest corner and less the railroad rights of way; and fifteen acres out of the West side of the East Half of the Northwest Quarter (E/2 NW/4) of said Section 34, Township 24, Range 19, less the railroad rights of way, Allen County, Kansas.

DUMP NO. TWO: Containing 8,841 tons, more or less, of cinder residue located on that part of the SE/4 of Section 27, Township 24 South, Range 18 East of the Sixth Principal Meridian, bounded as follows: Beginning at a point 1320 feet North and 587 feet 5-2/3 inches West of the Southeast corner of the SE/4 of said Section 27, running thence West 16 Chains and 27 Links; thence North 10 Chains and 62-2/3 links; thence ~~27-1/2 Chains and 71 Links~~ East 16 Chains and 71 Links; thence South 10 Chains and 60-2/3 Links to the place of beginning, containing 17.49 acres, more or less; and That part of the SE/4 of Section 27, Township 24 South, Range 18 East of the Sixth Principal Meridian, bounded as follows: Beginning at a point 50 feet West of the center of the Railroad right of way of the K.C.B. & S. K. Ry Co. (now the A.T. & S.F. Ry. Co.) and 219.6 feet North of the South line of said SE/4, running thence West 55 Rods; thence North 232.36 feet to the South line of Public highway, thence East along said line 55 Rods, thence South 232.36 feet to place of beginning, containing 4.84 acres, more or less, all in Allen County, Kansas.

DUMP NO. THREE: Containing 14,210 tons, more or less of cinder residue located on that part of the SW/4 of Section 25, Township 24, Range 18, commencing at a point 725 feet west of the Southeast corner of said Quarter Section, thence West 379 feet more or less, thence North 10 1/4 feet, thence East 379 feet more or less, thence South to place of beginning, being a tract 379 feet wide, more or less, and 10 1/4 feet long, containing about 9 acres, and All that part of the SW/4 of Section 25, Township 24, Range 18 East of the 6th P.M. and described as follows, Beginning at the Southeast corner of said SW/4, thence North 10 1/4 feet, thence West 725 feet, thence South 10 1/4 feet to the South line of said Quarter Section, thence East 725 feet to the place of beginning, containing 17-1/4 acres, more or less; LESS that part sold to the City of Iola commencing at a point on the East line of the SW/4 400 feet North of the SE corner of said SW/4, thence West 170 feet, thence North 6 1/4 feet, thence East 170 feet to the East line of said SW/4, thence South to place of beginning, containing 2-1/2 acres, more or less, all in Allen County, Kansas.

DUMP NO. FOUR: Containing 13,750 tons, more or less, of cinder residue located on the S/2 of the SW/4 of the NE/4 of Section 32, Township 24, South, Range 19 East of the Sixth Principal Meridian, less Railroad right of way, Allen County, Kansas.

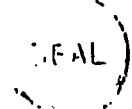
DUMP NO. FIVE: Containing 9,095 tons, more or less, of cinder residue located on the following described real estate in Allen County, Kansas, to-wit: Beginning at a point 1105 feet West of the Northeast corner of the SE/4 of Section 32, Township 24 South, Range 19 East of the Sixth Principal Meridian, thence running West 13-1/2 Chains, thence South 10.38 Chains, thence East 13-1/2 Chains; thence North 10.38 Chains to the point of beginning.

STATE OF KANSAS, ALLEN COUNTY: SS

Filed for record this 27 day of Dec. A.D. 1956 at 3:30 o'clock P.M. and duly recorded in Book M-55, Page 143.

P a 34.70

Eva Ammon  
Register of Deeds



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Σ. Ν. 11/12/11. V



Beginning at the NW corner of Lot 8, Iola Industrial Tract #1, an addition to the City of Iola, said point being 1,218.1 feet East and 1,272.35 feet South of NW corner of the SW 1/4 NE 1/4 of said Section 27, thence West parallel to the North side of said SW 1/4 NE 1/4, 400 feet, thence South parallel to the West side of Industrial Tract, 362.60 feet to a point 30 feet North of the center line of West Lincoln Street road, thence East parallel to West Lincoln Street road, 400 feet to the West side of Lot 8, of Industrial Tract, thence North along the West side of Lot 8, 372.25 feet to the point of beginning. The above tract contains 3.3740 acres, more or less.

TO HAVE AND TO HOLD THE SAME, together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining forever;

And the said party of the first part, for itself, its successors and assigns does hereby covenant, promise and agree, to and with said party of the second part, that at the delivery of these presents, it is lawfully seized in its own right, of an absolute and indefeasible estate of inheritance, in fee simple, of and in all and singular the above-granted and described premises, with the appurtenances, that the same are free, clear, discharged and unincumbered of and from all former and other grants, titles, charges, estates, judgments, taxes, assessments and encumbrances, of what nature and kind soever, EXCEPT AS FOLLOWS:

1. Mortgage executed by Iola Molded Plastics, Inc., a Kansas Corporation, to the Iola State Bank, a banking corporation, Iola, Kansas, dated August 8, 1963, filed for record August 9, 1963, at 9:11 A.M., and recorded in Book 112, Page 327, in principal sum of \$40,000.00, covering Tract No. 1.

2. Mortgage executed by Iola Molded Plastics, Inc., a Kansas Corporation, to the Iola State Bank, a banking corporation, Iola, Kansas, dated March 29, 1966, filed for record March 29, 1966, at 3:00 P.M., and recorded in Book 117, Page 313, in principal sum of \$22,000.00, covering Tract No. 1, assigned to Security Savings & Loan Association, Iola, Kansas, in assignment dated March 29, 1966, filed for record March 29, 1966, and recorded in Book 117, Page 316.

IN WITNESS WHEREOF, the party of the first part has hereunto caused this Deed to be signed on its behalf by its President, thereunto duly authorized so to do, and to be attested by its Secretary, and has caused its common seal to be hereunto affixed, the day and year last above written.

By: Ben C. Ellis, its president

**(CORPORATE SEAL)**

1. BE IT REMEMBERED, That on this 20<sup>th</sup> day of May,  
A.D., 1969, before me, the undersigned, a  
Notary Public in and for the County and State aforesaid,  
came Ben C. Ellis, President of Iowa Molded Plastics, Inc.,  
a corporation duly organized, incorporated and existing under  
and by virtue of the laws of Kansas, and Howard K. Gilpin,  
Assistant Secretary of said corporation, who are personally  
known to me to be such officers, and who are personally known  
to me to be the same persons who executed, as such officers,  
the within instrument of writing on behalf of said corporation.



3. Mortgage executed by Iola Molded Plastics, Inc., a Kansas corporation, to The Iola State Bank, a banking corporation, Iola, Kansas, dated July 28, 1967, filed for record July 28, 1967, at 11:00 A.M., and recorded in Book 118, Page 490, in principal sum of \$30,000.00 covering Tract No. 1 and Tract No. 2.

4. Mortgage executed by Iola Molded Plastics, Inc., a Kansas corporation, to The Iola State Bank, a banking corporation, Iola, Kansas, dated September 12, 1968, filed for record September 12, 1968, at 9:10 A.M., and recorded in Book 119, Page 604, in principal sum of \$20,000.00 covering Tract No. 1 and Tract No. 2, assigned to Security Savings & Loan Association, Iola, Kansas, by assignment dated September 12, 1968, filed for record September 12, 1968, and recorded in Book 119, Page 604.

5. That portion of Tract No. 1 which lies within Lot 1, of Industrial Tract No. 1, located in NE/4 and SE/4 of Section 27, Township 24 S., Range 18, E. is subject to a proviso that "should the improvements erected thereon be destroyed prior to October 7, 1979, to the extent to preclude their occupancy and the rebuilding or replacement thereof is not commenced within 9 months from the date of such destruction and completed within a reasonable time thereafter, then, and in that event, said property shall revert to and become the property of the City of Iola, Kansas, a Municipal corporation and City of the Second Class, in which proviso appears in Warranty Deed executed by Flora E. Walton and R. C. Walton, her husband, as Grantors, to Iola Molded Plastics, Inc., a Kansas corporation, as grantee, dated July 18, 1960, filed for record July 25, 1960, at 2:00 P.M., and recorded in Book 135, Page 606.

6. Easement and Right-of-Way Agreement executed by Iola Molded Plastics, Inc., a corporation, to City of Iola, Kansas, a Municipal corporation, dated June 21, 1960, filed for record July 9, 1960, at 8:30 A.M., and recorded in Book M-60, Page 449, which right-of-way and easement is for utility, sewer, telephone, telegraph and similar transmission lines, poles and appurtenances on, over, under and across "the eastern 20 feet of that certain platted road which presently lies between Lots 1 and 8, of Iola Industrial Tract No. 1, Iola, Kansas, being a strip of land 20 feet East and West abutting and adjoining Lot 1 on the West, together with right of ingress and egress to and from the same."



THIS INDENTURE, Made this 20<sup>th</sup> day of June A. D. 1984,  
between J. B. Kirk Gas & Smelting Company  
a corporation duly organized, incorporated, and existing under and by virtue of the laws of the State of  
Kansas and having its principal place of business at Iola  
in the State of Kansas, of the first part, and  
James J. Hopper and Anne C. Hopper, husband and wife,  
of Iola, Allen County, in the State of Kansas, as joint tenants  
with the right of survivorship and not as tenants in common, of the second part:

WITNESSETH, that said party of the first part, in consideration of the sum of \$10.00 and other  
good and valuable considerations

~~and~~ DOLLARS,

the receipt whereof is hereby acknowledged, does by these presents grant, bargain, sell and convey unto said  
parties of the second part, as joint tenants with the right of survivorship and not as tenants in common, all

the following described real estate situated in the County of Allen

and State of Kansas

, to wit:

That part of the Southeast Quarter of Section 27, Township 24 South, Range 18 East of the  
6th P.M., described as follows:

Commencing at a point 80 rods North and 647' 5 2/3" West of the Southeast corner of said  
Southeast Quarter thence West 8.28 chains, South 13.72 chains, East 8.28 chains, North 13.72  
chains to place of beginning, containing 11.26 acres, more or less;

also Lot 5 in Ice Plant Tract described in the plat recorded in Book 7 of plats page 30 lo-  
cated in the Southeast Quarter of Section 27, Township 24 South, Range 18 East of the 6th P.M.

There is also hereby included in this conveyance an assignment without recourse of all/first  
party's rights under the Stipulation of Settlement and the judgment entered thereon on  
December 23, 1974, in Case No. 124481 in the District Court of Shawnee County, Kansas, in  
which this Seller is plaintiff, the State Highway Commission of the State of Kansas is defen-  
dant and third party plaintiff and the City of Iola and Carl J. Smith are third party defendants

Lot 5 in Ice Plant Tract is subject to oil and gas reservation to former owners as stated  
in Warranty Deed dated December 10, 1923, to the Seller that is recorded in Book 87, Page  
572 of the Deed records, and this sale is subject to that reservation.

This sale is also subject to the lease dated September 11, 1947, to the City of Iola re-  
corded in Book M-49, Page 57, and apparently re-recorded in Book M-49, Page 264, the right-  
of-way agreement dated September 2, 1966, to Cities Service Gas Company recorded in Book  
M-74, Page 511, and all in the records of the office of the Register of Deeds of Allen  
County, Kansas.

TO HAVE AND TO HOLD THE SAME, together with all and singular the tenements, hereditaments  
and appurtenances thereunto belonging or in anywise appertaining forever, as joint tenants, the survivor to  
take the whole estate.

And said grantor for itself, its successors and assigns, does hereby covenant, promise and agree to and  
with said parties of the second part that at the delivery of these presents it is lawfully seized in its own right of  
an absolute and indefeasible estate of inheritance, in fee simple, of and in all and singular the above-granted  
and described premises, with the appurtenances; that the same are free, clear, discharged and unincumbered  
of and from all former and other grants, titles, charges, estates, judgments, taxes, assessments and incum-  
brances of what nature and kind soever Except as stated above

and that it will warrant and forever defend the same unto said parties of the second part, as joint tenants with  
the right of survivorship and not as tenants in common, against said party of the first part, its successors  
and assigns and all and every person or persons whomsoever lawfully claiming or to claim the same.

IN WITNESS WHEREOF, the said party of the first part has hereunto caused this Deed to be signed  
on its behalf by its President, thereunto duly authorized so to do, and has caused its corporate seal to be here-  
unto affixed on the day and year first above written.

J. B. KIRK GAS & SMELTING COMPANY

By Stanley J. Kirk  
(Stanley J. Kirk) President.

Corporate  
Seal

Old Zinc Smelter Area--Iola, Kansas  
October 14, 1991  
Norman McKee

Site:	Imp Boats
ID#:	KSD091356857
Break:	11.11
Other:	10-14-91

March 1, 1899

Deed--Charles Werner of Iola, Kansas, to Lanyon Zinc Company, a corporation chartered under the laws of New Jersey. The following:

Beginning SE corner of SW/4 Sec 35-24-19E; thence west 10 rods; thence north 16 rods; thence east 10 rods; thence, south 16 rods to beginning.

E/2 SW/4 Sec 28-24-19E containing 40 acres more or less.

Beginning 1 and 50% chains north of the SE corner of NE/4 of SE/4 Sec 27-24-18E, thence north 12.39 chains; thence west 6.64 chains; thence 12.39 chains; thence east 6.63 chains to beginning, contains 8.22 acres more or less.

Beginning at a point 720 feet north of the north line of the SE/4 of the SE/4 Sec 27-24-18E and 50 feet west of the center of the right-of-way of the Kansas City, Lawrence, and Southern Kansas Railroad Company; thence west 30 rods; thence north 16 rods; thence east 30 rods; thence south 16 rods to beginning, contains 3 acres more or less.

Lot 10, 11 in Block 10; Lot 10 in Block 11; Lot 8 in Block 22; Lot 2 in Block 23; Lot 3 in Block 24; Lot 10 in Block 39; Lot 5 & 10 in Block 41, all in the city of Iola.

Beginning 984 feet north of the north line of SE/4 SE/4 Sec 27 and on west line of right-of-way of Leavenworth, Lawrence, and Galveston Railroad; thence west 30 rods; thence south 16 rods; thence west 25 rods; thence north 64 rods; thence east to west line of railroad right-of-way; thence south following the west line of the railroad to the beginning, containing 19 acres more or less.

That part of NE/4 Sec 27 described as following: beginning at point on north line of the S/2 of NE/4 50 feet west of center of railroad; thence west 70 rods and 12 links; thence south 50 rods and 7 links; thence east to point 50 feet west of the center of railroad track; thence north and parallel with and 50 feet from center of track to beginning, containing 23 acres more or less.

All that part of the NE/4 of SE/4 Sec 34-24-18E; beginning at a point 1,337 feet south of of NE/4 of SW/4 of NE/4 of Sec 34; thence west 440 feet to Leavenworth, Lawrence, and Galveston Railroad; thence south along right-of-way 400 feet; thence east 60 feet; thence north 235 feet; thence east 380 feet; thence north 170 feet to beginning, containing 2 acres more or less.

The above listed areas appear to be transaction made originally to a Lanyon Zinc Company.

Old Zinc Smelter Area--Iola, Kansas  
October 14, 1991  
Norman McKee

### Sheriff's Sale

April 11, 1910

Lanyon Zinc Company to J. B. Kirk Gas & Smelting Company, a corporation chartered under the laws of Kansas.

Appeared to be all plots previously listed and many more in different areas in Allen County.

116 entries:

Deed--Lanyon Zinc Smelting Company to J. B. Kirk, July 29, 1912 (See Attachment #1).

Deed--July 1, 1915, J. B. Kirk Gas & Smelting Company to United States Smelting Company, a corporation chartered under the laws of Maine. Roughly it appears to be all of the plots listed on the sheriff's sale on April 11, 1910, and many, many oil and gas leases, pipeline easements, etc.

Deed--July 6, 1916, United States Smelting Company to J. B. Kirk Gas & Smelting Company.

Part of the SE/4 Sec 27-24-18E; beginning at a point 1,320 feet north and 587 feet 5 2/3 inches west of the SE corner of the SE/4; thence west 16 chains and 27 links; thence north 10 chains 62 2/3 links; thence east 16 chains 71 links; thence south 10 chains 60 2/3 links to beginning, containing 17.49 acres more or less.

That part of the SE/4 Sec 27-24-18E; beginning at a point 50 feet west of the center or railroad right-of-way of the K.C.L. and Southern Kansas Railroad (now AT&SF) and 2,019.6 feet north of the south line of the SE/4 running west 55 rods; thence north 232.36 feet to the south line of public highway; thence east along said line 55 rods; thence south 232.36 feet to beginning, containing 4.84 acres more or less.

That part of the SE/4 Sec 27-24-18E; beginning 1.50 $\frac{1}{2}$  chains north of SE corner of NE/4 of SE/4 running north 12.39 chains; thence west 6.64 chains; thence south 12.39 chains; thence east 6.64 chains to place of beginning, containing 8.82 acres more or less.

That part of the SE/4 Sec 27-24-18E; beginning at point at NE corner of SE/4; thence south 6.105 chains; thence west 6.63 chains; thence north 6.105 chains; thence east 6.45 chains to beginning, containing 3.99 acres.

That appears to be all of the deed transactions in Sec 27-24-18E, that was affected by smelting operations up to August 28, 1953, when the following sale agreement transpired.

Old Zinc Smelter Area--Iola, Kansas  
October 14, 1991  
Norman McKee

Deed--January 5, 1924, J. B. Kirk Gas Smelting Company to Pet Milk Company, a corporation organized under laws of Illinois.

Part of SE/4 of Sec 27-24-18E; beginning at point at the NE corner of SE/4; thence south 6.105 chains; thence west 6.63 chains; thence south 6.105 chains; thence east 6.45 chains containing 3.99 acres.

→ August 28, 1953

Agreement by J. B. Kirk of Iola, Kansas to Cherryvale Zinc Company, a New York Corporation, to sell 500 tons of cinder residue from Dump #1. (See Attachment #1)

October 26, 1956

Agreement between J. B. Kirk Estate to Cherryvale Zinc Company to sell cinder residue from Dump #1; also a clause that gives Cherryvale Zinc Company the right to purchase cinder residue at a later date (October 26, 1956, partial agreement copy showing five dump sites. (See Attachment #2)

Deed--June 21, 1967, City of Iola to Iola Molded Plastics, Inc. Tract of land in SW/4 NE/4 and NW/4 SE/4 Sec 27-24-18E; beginning at NW corner of Lot 8, Iola Industrial Tract #1, an addition to City of Iola; point being 1,218.1 feet east and 1,272.35 feet south of NW corner of SW/4 NE/4 of Sec 27; thence west parallel to the north side of SW/4 NE/4 400 feet; thence south parallel to the west side of Industrial Tract, 414.20 feet to a point 30 feet north of the center line of West Lincoln Street road; thence east parallel to west Lincoln Street road, 400 feet to the west side of Lot 8 of Industrial Tract; thence north along the west side of Lot 8, 422.25 feet to the point of beginning, containing 3.8402 acres more or less.

March 9, 1967

Deed--J. B. Kirk Gas & Smelting Company to Gerald L. Wright a small tract in SE/4 Sec 27-24-18E.

August 2, 1968

Deed--Gerald L. Wright to City of Iola. Appears to be the same tract that Wright obtained from J. B. Kirk Gas & Smelting Company on March 9, 1967.

May 20, 1969

Deed--Iola Molded Plastics, Inc., to American Photocopy Equipment Company, a corporation under the laws of Delaware. (See Attachment #3)

Old Zinc Smelter Area--Iola, Kansas  
October 14, 1991  
Norman McKee

June 20, 1984

Deed--J. B. Kirk Gas & Smelting Company to James J. Hopper (See Attachment #4)

NOTE: Stanley Kirk, President

October 19, 1990

Deed--James Hopper to City of Iola. Lot 5, ice plant tract.

There were several transactions in other sections involving J. B. Kirk Gas & Smelting Company and apparently some of these tracts still are owned by the estate.

bounds to 5.85@5.90 at the end of November. The demand was only met to the extent of current output and stocks on hand, as the smelters expected a scarcity of spelter during the winter months. This put them in a vulnerable position when it turned out that the galvanizers, instead of requiring larger quantities, were compelled to reduce their operations, and that the brass industry, which had been flourishing throughout the year, was also beginning to feel the effect of the general contraction. Prices dropped off as quickly as they had advanced, and the year ends with the market weak at 5.27 1/4 @ 5.32 1/4.

### List of American Zinc Smelters

The accompanying table is compiled from the latest available data, most of the figures entered in the table having been supplied by the respective companies:

Of the above retorts, 11,104 are owned by smelters at Bartlesville, Okla., 25,524 at Iola, Kan., and 21,248 at other places in Kansas. The furnaces of the United States Zinc Company at Pueblo, Colo., have Rhenish retorts. At all of the others the retorts are of the Belgian type.

At the works of the Cannon Zinc Company at Iola, Kan., the last furnace was

### Zinc Mining in Wisconsin in 1910

By J. E. KENNEDY\*

The net tonnage of zinc ore shipped to smelteries from the Wisconsin district in the first 11 months of 1910 was 55,927 tons. Approximately 5000 tons were zinc carbonate; the remainder was zinc sulphide assaying from 40 to 62 per cent. metallic zinc. The production in the 12 months of 1909, computed from smelter receipts, was 69,000 tons.

ZINC SMELTING CAPACITY OF THE UNITED STATES AT END OF 1910.

Name.	Location.	Furnaces.	Retorts.
American Zinc, Lead and Smelting Co.	Deering, Kan.	8	3,840
American Zinc, Lead and Smelting Co.	Caney, Kan.	8	3,048
Bartlesville Zinc Co.	Bartlesville, Okla.	8	4,608
Bertin Mineral Co.	Pulaski, Va.	10	1,400
Chunata Zinc Co.	Chanute, Kan.	4	1,280
Cockerill Zinc Co. (Beer, Sondheim & Co.)	Altoona, Kan.	6	3,840
Cockerill Zinc Co.	Bruce, Kan.	4	808
Cockerill Zinc Co. (L. Vogelstein & Co.)	Gas City, Kan.	4	2,560
Cockerill Zinc Co. (L. Vogelstein & Co.)	La Harpe, Kan.	4	1,853
Cockerill Zinc Co.	Nevada, Mo.	3	648
Collinsville Zinc Co.	Collinsville, Ill.	6	1,536
Edgar Zinc Co.	St. Louis, Mo.	9	2,000
Edgar Zinc Co.	Cherryvale, Kan.	24	4,800
Granby Mining and Smelting Co.	Noodin, Kan.	6	3,840
Grassell Chemical Co.	Clarkburg, W. Va.	10	5,760
Hugler Bros.	Danville, Ill.	2	1,800
Illinois Zinc Co.	Peru, Ill.	7	4,640
Lanyon-Starr Smelting Co.	Bartlesville, Okla.	5	2,880
Lanyon Zinc Co.	Iola-La Harpe, Kan.	15	9,740
Matthies & Hygler	Lassalle, Ill.	5	4,380
Mineral Point Zinc Co.	Depue, Ill.	6	4,520
National Zinc Co.	Bartlesville, Okla.	5	3,040
New Jersey Zinc Co.	Palmerton, Penn.	12	2,848
New Jersey Zinc Co.	Bethlehem, Penn.	13	1,680
Pittsburg Zinc Co.	Pittsburg, Kan.	4	910
Pelme Western Spelter Co.	Gas, Kan.	14	8,584
Sandoval Zinc Co.	Sandoval, Ill.	4	896
United States Zinc Co.	Pueblo, Colo.	8	1,920
United Zinc and Chemical Co.	Iola, Kan.	8	2,784
United Zinc and Chemical Co.	Springfield, Ill.	3	2,080
		224	95,211

RECORD OF SHIPMENT AND PRICES

The accompanying table shows the shipment by camps up to Dec. 3, of both crude and finished concentrates. The shrinkage in the net shipment is developed at the roasting and separating plants. By the process of roasting and magnetic separation and also of electrostatic separation, green concentrates assaying from 10 to 40 per cent. zinc are converted into a product testing from 50 to 62 per cent. metallic zinc. A loss exceeding 10 per cent. of zinc content is sustained, together with a shrinkage of 30 to 90 per cent. in the gross weight of raw concentrates as zinc ore. Part of the sulphur content goes off in the fumes and the residual iron to the dump pile in the case of the roaster at Cuba City, and the iron pyrites separated as a by-product in the case of the electrostatic separator at Platteville. The largest week's shipments in the period covered was 3136 tons of zinc concentrates, as sent from the mines direct to the smelteries and to the separating plants, and 2431 tons of medium- and high-grade product as shipped direct to the smelteries from the mines and from the separating plants.

The top price paid for zinc ore was \$50 per ton, and the highest base price paid for 60 per cent. zinc was \$49 per ton, recorded in January. The base price dropped as low as \$38 per ton in February, May and August, and was below \$40 per ton during eight weeks of the year.

### FIELD DEVELOPMENTS AND NEW MILLS

The zinc-producing area was extended to the southeast by the development of the Field, Drum, Little Minnie, Lucky Twelve and Winskill properties, which rank among the best producers in the district. Nine concentrators were rebuilt and constructed since Jan. 1, 1910, viz., the Drum, Little Minnie, Lucky Twelve and Schreier, at Benton; the Peaceful Valley at Cuba City; the Wallace at Highland; the Homestead and Cleveland-Klondike at Platteville, and the Unity, at Galena; six other concentrators were completed in 1910, the construction of

\*Platteville, Wis.

While prices may recede further, depending upon the return of a normal business situation, an undue decline would probably be checked through the relative proximity of the export basis and an ex-

closed down on Dec. 26. The three works will now remain closed indefinitely. The American Metal Company will surrender its lease of them.

The United Zinc and Chemical Company dismantled its Iola plant. At its Springfield plant it added one block of 800 retorts, and is building two blocks comprising 1600 retorts. These will go into operation in January and February, 1911. The Mineral Point Zinc Company increased its plant at Depue by one block of 600 retorts. The Bartlesville Zinc Company added two blocks, comprising 1152 retorts.

Of the old coal smelteries, the Pittsburg Zinc Company closed its plant early in 1911, and the Cockerill plant at Nevada, Mo., also was closed. On the other hand the works at Collinsville, Ill., long idle, were put once more into operation. The Cockerill Zinc Company went out of business in 1910, its Altoona works being taken over by Beer, Sondheim & Co., and its La Harpe and Gas City works by L. Vogelstein & Co., the other plants becoming idle.

The tin production of Singkep in 1909-10 was 6560 Netherland Indies pikuls, against 6872 in 1908-9 and 6619 in 1907-08.

Month.	SMELTER					
	New York.		St. Louis.		London.	
	1909.	1910.	1909.	1910.	1909.	1910.
January.....	5.141	5.101	4.991	5.051	21.425	21.350
February.....	4.889	5.500	4.739	5.410	21.592	21.188
March.....	4.757	5.637	4.607	5.487	21.428	21.031
April.....	4.965	5.479	4.815	5.282	21.531	21.479
May.....	5.121	5.191	4.974	5.041	21.975	22.100
June.....	5.402	5.129	5.252	4.978	22.000	22.084
July.....	5.402	5.152	5.252	5.002	21.960	22.406
August.....	5.129	5.279	5.379	5.129	22.125	22.800
September.....	5.796	5.514	5.646	5.364	22.906	22.165
October.....	6.109	5.628	6.043	5.478	22.300	22.900
November.....	6.381	5.970	6.291	5.826	23.188	24.088
December.....	6.249	5.624	6.099	5.474	23.094	24.019
Year.....	5.383	5.320	5.352	5.370	22.201	22.650

New York and St. Louis, cents per pound. London, pounds sterling per long ton.

ceptionally strong European position. Moreover, the market is as yet not hampered statistically. Available supplies do not exceed what might be termed a safe and normal working stock. Since providing new capacity in the coalfield will be a relatively slow process, the market can reasonably be judged as being surrounded by conditions which will enable it quickly to respond to favorable developments.

# Spelter Statistics for 1910

By W. R. Ingalls

The production of spelter in the United States in 1909 and 1910 is given in Table I, which as to the ore smelters is compiled from reports officially communicated by every one. As to the dross and scrap smelters the production of three small concerns has been estimated. Under the classification of "dross and scrap" smelters I include only those concerns that work up such material and market the product as spelter. Some of them redistil and some of them simply

## I. PRODUCTION OF ZINC

### By Ore Smelters

States	1909	1910
Colorado	6,115	6,564
Illinois	73,220	79,570
Kansas and Missouri	111,308	112,182
Oklahoma	28,840	34,780
East	44,470	43,980
Totals	266,462	277,063
By Dross and Scrap Smelters		
	1909	1910
	15,997	11,350
Total Production of Zinc		
	1909	1910
Ore smelters	266,462	277,063
Dross smelters	15,997	11,350
Totals	282,459	288,413

remelt, skimming off impurities. Their business does not differ essentially from that of the smelters who make spelter out of ore, and indeed a good many of the latter treat dross in connection with ore. Besides this reclamation of zinc from by-products, junk, etc., many consumers of spelter reproduce spelter from their own waste. It is extremely difficult to enumerate accurately the amount of such re-

## II. PRODUCTION OF ZINC ORE

State	1909a	1910b
Arizona	7,908	7,568
Arkansas	320	190
Colorado	90,288	77,065
Idaho	2,784	10,248
Kentucky	94	170
Missouri-Kansas	304,581	280,013
Montana	12,037	31,514
Nevada	4,800	4,918
New Mexico	10,163	15,080
New Jersey	470,890	c
Oklahoma	17,080	1,840
Tennessee	1,710	2,775
Utah	18,130	27,318
Wisconsin	69,000	51,383
Others	572	46,905
Totals	1,027,954	560,572
Mexico	90,707	29,108
Canada	9,181	11,795

a Production. b Smelters' receipts; reports missing from three small smelters. c Included in "Others."

covery, and I have not attempted it. Nor would such an enumeration properly play a part in statistics of the spelter industry.

The ore smelters reported a production of 7793 tons of spelter from dross in 1910, and 269,272 tons from ore.

In 1910 there were produced 3398 tons of spelter in bond, most of which had been exported before the end of the year.

All of the ore smelters except two small concerns, whose output of spelter was 6170 tons, reported the amount and sources of their ore receipts, which enables the compilation of Table II.

The statistics for 1909 and 1910 in Table II are not properly compar-

*A summary of the production of zinc ore and spelter in the United States in 1910, together with estimates of the consumption of spelter and a statement of the zinc-smelting capacity.*

able, without explanation. Those for 1909 represent the total receipts of zinc ore, both by spelter and oxide manufacturers, except that the figure for New Jersey represents the mine production. The figures for 1910 represent the receipts of ore by spelter manufacturers only, with the exceptions previously noted. The concentrates produced from New Jersey ore are included for the total entered under "Other States."

It seems probable that some of the smelters in reporting credited to Missouri and Kansas some ore that came from Oklahoma. The shipments from the Joplin district in 1910 were about 291,000 tons, of which about 15,000 came from Oklahoma. The shipments from Wisconsin mines in 1910 were 62,000 tons, this including what went to oxide works.

The amount of zinc ore reported by the smelters as received from Canada and Mexico in 1910 was 40,993 tons. The imports reported by the Government were 83,057 tons. Foreign ore containing 4712 tons of zinc was reexported, which probably corresponded to about 12,000 tons of ore. Of the imports reported, 11,683 tons were received by the lead smelters. Allowing for changes in the quantity of ore remaining in bond there probably is no irreconcilable discrepancy between the Government figures and those of the smelters.

In 1910, sulphuric acid was made as a byproduct by seven zinc smelters, their aggregate output having been about 202,000 tons, basis, 60 deg. B. These smelters produced 100,791 tons of spelter. They received 49,328 tons of blende ore from Wisconsin, and 102,466 tons from the Joplin district, besides less supplies from the Rocky mountains. It is noteworthy that these works buy nearly the whole output of blende in Wisconsin and about one-third of the total production of zinc ore in the Joplin district.

## CONSUMPTION

All of the ore-smelters except Chanute and Sandoval reported their stock on

hand at the end of 1910. Including a small estimate for these, the total was 23,000 tons. Disregarding any stock that may have been in the hands of dross and scrap smelters the deliveries into consumption in 1909 and 1910 are computed in Table III.

## III. DELIVERIES INTO CONSUMPTION

	1909	1910
Stock Jan. 1	25,000	11,500
Production	282,459	288,413
Imports	9,670	3,452
	317,129	303,367
Exports, domestic	2,566	3,080
Exports, foreign	334	4,488
Stock, Dec. 31	11,500	23,000
Deliveries	302,729	271,802

In addition to the spelter produced in bond and exported in slabs, 4486 tons of foreign spelter was exported in 1910 under drawback privilege. This does not, however, enter properly into a computation of domestic consumption, its application in the manufacture of wares in this country having been a consumption.

As to actual consumption I cannot speak with confidence. Reports from consumers other than brass-makers, accounting for 170,982 tons of spelter, show in their cases about the same consumption as in 1909. In galvanizing there was a trifling increase; in the rolling of sheet zinc a small decrease. Reports received from brass-makers are too incomplete to furnish statistical indication of the position of that industry; but judging from the consumption of copper in 1910 there was probably an increased manufacture of brass.

The consumption of spelter in the United States in 1909 was estimated at 261,600 tons. In 1910 it was probably in the neighborhood of 270,000 tons, divided approximately in the ratio of 60 per cent. for galvanizing, 20 per cent. for brass-making, 11 per cent. for sheet zinc, and 9 per cent. for other purposes.

## SMELTING CAPACITY

The capacity of American zinc works at the end of 1910 is given in Table IV, the number of retorts having been reported officially by all of the producers except Chanute and Sandoval.

Of the total of 91,291 retorts, 10,528 are owned by smelters at Bartlesville, Okla., 22,737 at Jola, Kan., and 22,158 at other places in Kansas. The furnaces of the United States Zinc Company at Pueblo, Colo., have Rhenish retorts. At all of the others the retorts are of the Belgian type.

At the works of the Lanyon Zinc Company at Jola, Kan., the last furnace was closed down on Dec. 26. The three works will now remain closed indefinitely. The American Metals Company has surrendered its lease of them.

The United Zinc and Chemical Company dismantled its Jola plant. At its

DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY  
GEORGE OTIS SMITH, Director

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# MINERAL RESOURCES

OF THE

# UNITED STATES

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CALENDAR YEAR

1910

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PART I—METALS



WASHINGTON  
GOVERNMENT PRINTING OFFICE  
1911



1910

tillation the briquets came out of the retorts quite porous, but intact, and well suited for direct lead smelting. There was no tendency for the retorts to "slag up" in the bottom because the briquets came away clear and entire each time. The recovery of zinc, based on the whole run, was 70 per cent, but at times it exceeded 85 per cent. The conclusion is that above 80 per cent recovery could be maintained in commercial operation, which is excellent practice for that class of ore. As results of this process, an otherwise unavailable product was rendered profitable, the smelter commanded a premium for purity, there was 33½ per cent increase in capacity of the retorts, and there was a considerable saving of time and waste in cleaning and recharging the retorts.

The problem of the complex lead-zinc ores has also been attacked from the electrochemical side. A 200-ton plant is under construction at Georgetown, Colo., by the Western Metals Co., which will employ the Malm process. In this process the sulphides are subjected to partial dry chlorination in a tube mill, the chloridizing is completed by agitation in a tank with hydrochloric acid, and the metals except zinc, are, by an emulsion of zinc oxide, precipitated in a form suitable, after filtering through asbestos filter presses, for treatment by lead smelters. The zinc chloride solution remaining is evaporated, fused, and electrolyzed, metallic zinc being thus recovered and the chlorine regenerated. The present plant is being constructed in the light of experience gained at the experimental plant previously in operation at Elkhorn, Mont. The Georgetown plant will not be completed until about the middle of 1911.

The occurrence of other metals in connection with zinc in ores offers no special difficulty in electrothermic zinc smelting. Reference is made on a later page to the official experimentation with electrothermic methods of zinc smelting now in progress in the Dominion of Canada. In the United States similar investigation is active. New forms of electric zinc furnaces have been brought out by Hixon (U. S. Patent No. 957,337, May 10, 1910), Woolsey McA. Johnson (U. S. Patent No. 964,268, July 12, 1910), and Fitzgerald. In the new Johnson furnace, the zinc vapors pass through a column of artificially heated coke before reaching the condensing chamber, with the object of completely reducing them and eliminating carbon dioxide, aqueous vapor, etc. The furnace described by Fitzgerald<sup>1</sup> was worked with satisfactory results at the Hohenlohehütte, Upper Silesia. This furnace employs a resistance arch of corrugated carbon plates and reduces the zinc sulphide by the Imbert method in a molten bath of ferric oxide and iron sulphide at a temperature of 1,000° C. to 1,100° C.

Other forms of electric furnace proposed for the reduction of zinc ores were briefly described in Mineral Resources for 1908, Part I, pages 262-264.

<sup>1</sup> Paper read at Fiftieth Anniversary of Massachusetts Institute of Technology.

## ZINC SMELTERS.

The following table gives the zinc-smelting capacity of the United States as determined by a recent canvass:

List of zinc smelters in the United States, showing capacity in 1910.

Company.	Location.	No. of smelting furnaces.	No. of zinc furnaces.	Number of retorts.
American Zinc, Lead & Smelting Co.	Canby, Kans.	2	12	3,613
Do.	Deering, Kans.	2	12	3,640
Bartlesville Zinc Co.	Bartlesville, Okla.	4	14	4,503
Bertha Mineral Co.	Pulaski, Va.	1	10	1,400
Chanute Zinc Co.	Chanute, Kans.	2	4	1,280
Collinsville Zinc Co.	Collinsville, Ill.	4	12	1,523
Edgar Zinc Co.	Cherryvale, Kans.	8	24	4,800
Do.	St. Louis, Mo.	8	9	2,015
Granby Mining and Smelting Co.	Needles, Kans.	3	13	3,840
Russell Chemical Co.	Clarksburg, W. Va.	10	10	5,760
Regier Bros.	Danville, Ill.	1A	2	1,800
Ullrich Zinc Co.	Ford, Ill.	2A	7	1,840
Kansas (Cockerill) Zinc Co. (leased to Bost. Smelter & Co.)	Atchison, Kans.	3	6	3,840
Kansas (Cockerill) Zinc Co. (leased to L. Vogelstein & Co.)	Oak City, Kans.	3	4	2,320
Do.	La Harpe, Kans.	4	3	1,255
Kansas (Cockerill) Zinc Co.	Pittsburg, Kans.	4	6	1,314
Do.	St. Paul, Kans.	4	4	896
Do.	Nevada, Mo.	3	2	672
Lanyon-Starr Smelting Co.	Bartlesville, Okla.	2	12	3,458
Lanyon Zinc Co., No. 1 (leased to American Metal Co.)	Iola, Kans.	3	10	3,340
Lanyon Zinc Co., No. 2 (leased to American Metal Co.)	Do.	3	10	3,320
Lanyon Zinc Co., No. 3 (leased to American Metal Co.)	La Harpe, Kans.	4	10	3,200
Mathieson & Regier Zinc Co.	Lasalle, Ill.	3A	5	4,360
Mineral Point Zinc Co.	Depue, Ill.	2A	6	4,320
National Zinc Co.	Bartlesville, Okla.	3	10	3,040
New Jersey Zinc Co. (of Pa.)	South Bethlehem, Pa.	18	18	1,620
Do.	Salamanca, Pa.	14	14	2,918
Pittsburg Zinc Co.	Pittsburg, Kans.	6	9	910
Prima Western Smelter Co.	Iola, Kans.	3	10	3,340
Do.	Oak City, Kans.	8	13	4,340
Sandoeval Zinc Co.	Sandoeval, Ill.	8	8	985
United States Zinc Co.	Furbio, Colo.	6	7	1,830
United Zinc and Chemical Co.	Springfield, Ill.	1	4	1,020
Total.		102	304	94,328
Total maximum smelting capacity, short tons.				400,681
Total effective smelting capacity, short tons.				375,000

Zinc-smelting capacity of the United States, by States, in 1910.

State.	Number of retorts.	State.	Number of retorts.
Colorado	1,030	Pennsylvania	4,533
Illinois	19,844	Virginia	1,400
Kansas	47,214	West Virginia	2,760
Missouri	2,683		
Oklahoma	11,104	Total	94,328

The total maximum annual smelting capacity of the 94,328 retorts of the plants listed above is 400,681 short tons. Several of the plants have not been operated for several years, and they are probably abandoned. Certain of the smelters regularly redistill considerable quantities of zinc skimmings and other secondary material, and a proportionate part should be deducted from their

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primary smelting capacity, that is, their capacity for smelting ore. About 6,000 retorts, with an output of 25,500 tons of spelter, should therefore be taken from the maximum capacity, leaving 88,328 retorts and about 375,000 tons as the effective smelting capacity.

Those plants which have an "A" opposite the number of roasting furnaces operate, in addition, sulphuric-acid plants. The Grasselli Chemical Co. operates acid plants in connection with its zinc-roasting furnaces at Grasselli, Ind., and Cleveland, Ohio, the roasted zinc concentrates being shipped to the zinc smelter at Clarksburg. The United Zinc & Chemical Co. has zinc-roasting furnaces at Argentine, Kans., where the sulphur gases are utilized in an acid plant, the roasted concentrates being shipped to the smelter at Springfield, Ill.

## NEW ZINC SMELTERS.

The following is a list of proposed new zinc smelters. They are all actually under construction, with the exception of the plant of the Granby Mining & Smelting Co., which it is reported will be started in the early part of 1912. Those smelters with "A" in the zinc-furnace column will manufacture sulphuric acid also.

List of new zinc smelters under construction in 1910.

Company.	Location.	Completed.	Number of zinc furnaces.	Number of retorts.
American Zinc, Lead & Smelting Co.	Hillsboro, Ill.	1913	10 A	4,000
Bartlesville Zinc Co.	Collinsville, Okla.	1912	8	3,200
Granby Mining & Smelting Co.	East St. Louis, Ill.	1914	8 A	2,880
Grasselli Chemical Co.	Mundwobrock, W. Va.	1911	8 A	2,250
Robert Lanyon Zinc & Acid Co.	Hillsboro, Ill.	1912	4 A	1,600
Tulsa Fuel & Manufacturing Co. (subsidiary of Prime Western Spelter Co.)	Collinsville, Okla.	1912	10	4,000

## CHANGES IN 1910.

An important feature of the year was the further acquisition of zinc-mining land by several zinc-smelting companies. The New Jersey Zinc Co., in addition to the famous Franklin Furnace and Sterling Hill mines of New Jersey, has, through its subsidiaries, the Empire Zinc Co. and the Empire Zinc Co. of Colorado, for many years had extensive interests in zinc-mining lands in Missouri, Colorado, and other Western States. An affiliation, the Mineral Point Zinc Co., has in the last year or two largely increased the operations and holdings of its mines department in the Wisconsin field. The American Zinc, Lead, & Smelting Co. was engaged in zinc mining before it became interested in smelting; but recently its holdings of productive lands in the Joplin region have been largely increased—as have been the holdings of its subsidiary, the Wisconsin Zinc Co., in the upper Mississippi Valley region. The Granby Mining & Smelting Co. has large tracts of productive territory in the Joplin region which it has heretofore operated on the subleasing basis, but within the year the company has engaged in active mining. The Grasselli Chemical Co. has lately acquired important zinc lands in eastern Tennessee. The American Metal Co., through an affiliated company, has for years held zinc lands in the Joplin region, and is

reported by the mining press to have recently purchased zinc properties in Western States. Several other smelting companies have been and are still interested in zinc-mining lands on a smaller scale than the foregoing.

The Cockerill Zinc Co. failed early in February. The business was reorganized and continued by the bondholders as the Kansas Zinc Co., and later the Altoona smelter was leased to Beer, Sondheimer & Co. and the Gas City and La Harpe plants were leased to J. Vogelstein & Co. The receivership of the Lanyon Zinc Co. was dissolved in September, but the plants had been operated during the year under lease to the American Metal Co.

In the latter part of 1910 the two plants of the United Zinc & Chemical Co. at Iola, Kans., were dismantled, a part of the equipment being moved to the plant at Springfield, Ill., and the remainder was purchased for use in the new Lanyon smelter at Hillsboro, Ill. The smelter at Rich Hill, Mo., is reported as dismantled. The smelter at Wenona, Ill., is probably abandoned, and is therefore dropped from the list. The plant of the New Jersey Zinc Co. at South Bethlehem was closed down in midyear and will probably not be operated again. Numerous additions to smelting capacity were made during the year, so that on the whole there was a net loss of but 606 retorts in smelting capacity.

The following lists show the plants abandoned and the additions to smelting capacity in 1910:

Plants dismantled or abandoned in 1910.

Company.	Location.	Number of retorts.
Cockerill Zinc Co.	Rich Hill, Mo.	872
New Jersey Zinc Co.	South Bethlehem, Pa.	1,620
United Zinc & Chemical Co.	Iola, Kans.	2,624
Wenona Zinc Works	Wenona, Ill.	512
Total		5,428

Additions to smelting capacity in 1910.

Company.	Location.	Number of retorts.
Bartlesville Zinc Co.	Bartlesville, Okla.	1,152
Lanyon-Sart Smelting Co.	do.	1,152
Mineral Point Zinc Co.	Dopue, Ill.	780
National Zinc Co.	Bartlesville, Okla.	808
New Jersey Zinc Co.	Palmerston, Pa.	350
United Zinc & Chemical Co.	Springfield, Ill.	800
Total		4,922

## CHANGES IN 1911.

It is possible to forecast with fair certainty the changes in smelting capacity during 1911. The plants of the Lanyon Zinc Smelting Co. are being dismantled, the equipment from the works at Iola going into the smelter of the Bartlesville Zinc Co. at Collinsville, Okla., and that from the La Harpe works being used in the Robert Lanyon smelter at Hillsboro, Ill. The zinc-rolling mill at the La Harpe